BRUHAT BANGALORE MAHANAGARA PALIKE

KODIGEHALLI SUBDIVISION

WARD NO.07, Byatarayanapura

Name of work: Name of Work:- Improvements to drains of kariyanna layout main road in ward no.07 Byataranapura.

Estimated Cost:- 75.00 Lakhs

Name of Work:- Improvements to drains of kariyanna layout main road in ward no.07 Byataranapura. Estimated Cost:- 75.00 Lakhs									
S.N	DESCRIPTION OF WORK	Unit	N	L	B	D	QTY	RATE	AMOUNT
1	2	3	4	5	6	7	8	9	10
1	KSRRB 300-1. Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.. (Pg No.143.Item No.19.1)								
	Basic Rate:	cum	**130.00**						
	Area Weightage @ 6%		7.80						
	Total		**137.80**						
	Veerannapalya								
	Cross Roads		4.00	48.00	4.00	0.30	230.40		
	Veerannapalya Drains								
	5th cross		2.00	115.00	0.95	0.85	185.73		
	6th cross		1.00	135.00	0.95	0.85	109.01		
	Sandhyagappa layout drains								
	cross road-3		2.00	60.00	0.80	0.70	67.20		
	cross road-4		2.00	60.00	0.80	0.70	67.20		
	cross road-5		2.00	65.00	0.80	0.70	72.80		
	Gangamma Temple Area								
	Cross road-1		2.00	40.00	0.80	0.70	44.80		
	Cross road-2		2.00	30.00	0.80	0.70	33.60		
	Amruthalli Remaining		1.00	20.00	1.20	1.20	28.80		
	RHS								
	For Pit		4	3.14*0.8*0.8		3.00	6.03		
	(3.14x0.8x0.8)/4 x 3.0			4					
	Over burden earth		1	11.00	1.50	0.90	14.85		
					TOTAL		**860.42**	137.80	**118566.00**
2	KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications.(which includes cost of gravel / murrum, watering charges & compaction by vibratory roller)(P-147., It No: 19.60)								
	Basic Rate:	cum	325.00						
	Area Weightage @ 6%		19.50						
	Total		344.50						
	Veerannapalya								
	Cross Roads		4.00	48.00	4.00	0.15	115.20		
					TOTAL		**115.20**	344.50	**39687.00**

Name of Work:- Improvements to drains of kariyanna layout main road in ward no.07 Byataranapura.
Estimated Cost:- 75.00 Lakhs

S.N	DESCRIPTION OF WORK	Unit	N	L	B	D	QTY	RATE	AMOUNT
1	2	3	4	5	6	7	8	9	10
3	KSRB 4-1.3: Providing and laying in position plain cement concrete of nominal mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification . **(Pg.No.13, It.4.3)**								
	Basic Rate:	cum	5102.00						
	Area Weightage @ 6%		306.12						
	Total		5408.12						
	Veerannapalya								
	Cross Roads		4.00	48.00	4.00	0.15	115.20		
	RCC DRAIN-BOTTOM								
	Veerannapalya Drains								
	5th cross		2.00	115.00	0.95	0.15	32.78		
	6th cross		1.00	135.00	0.95	0.15	19.24		
	Sandhyagappa layout drains								
	cross road-3		2.00	60.00	0.80	0.15	14.40		
	cross road-4		2.00	60.00	0.80	0.15	14.40		
	cross road-5		2.00	65.00	0.80	0.15	15.60		
	Gangamma Temple Area								
	Cross road-1		2.00	40.00	0.80	0.15	9.60		
	Cross road-2		2.00	30.00	0.80	0.15	7.20		
	Amruthalli Remaining								
	RHS		1.00	20.00	1.20	0.15	3.60		
					TOTAL		**232.01**	5408.12	**1254752.00**
4	KSRB 4.2.2: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.460 cum with superplastizers @ 3lts confirming to IS 9103-1999 RE affirmed - 2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, stair case lintels, retaining walls return walls, walls(anythickness) including attached plasters columns piers abutments pillars posts struts butresses string or lacing courses parapets copings, bed blocks , plain windows cills fillets etc., including cost of all materials labour HOM of machinery curing complete as per specifications. Seocifications No. KBS 4.1,4.6 (Page NO. 14, Item NO. 4.11)								
	Basic Rate:	cum	5659.00						
	Area Weightage @		339.54						
	Total		5998.54						
	RCC DRAIN-BOTTOM								

Name of Work:- Improvements to drains of kariyanna layout main road in ward no.07 Byataranapura. Estimated Cost:- 75.00 Lakhs									
S.N	DESCRIPTION OF WORK	Unit	N	L	B	D	QTY	RATE	AMOUNT
1	2	3	4	5	6	7	8	9	10
	Veerannapalya Drains								
	5th cross		2.00	115.00	0.75	0.15	25.88		
	6th cross		1.00	135.00	0.75	0.15	15.19		
	Sandhyagappa layout drains								
	cross road-3		2.00	60.00	0.60	0.15	10.80		
	cross road-4		2.00	60.00	0.60	0.15	10.80		
	cross road-5		2.00	65.00	0.60	0.15	11.70		
	Gangamma Temple Area								
	Cross road-1		2.00	40.00	0.60	0.15	7.20		
	Cross road-2		2.00	30.00	0.60	0.15	5.40		
	Amruthalli Remaining								
	RHS		1.00	20.00	1.00	0.15	3.00		
	Side Wall								
	Veerannapalya Drains								
	5th cross	**2x2**	4.00	115.00	0.15	0.45	31.05		
	6th cross	**1x2**	2.00	135.00	0.15	0.45	18.23		
	Sandhyagappa layout drains								
	cross road-3	**2x2**	4.00	60.00	0.15	0.30	10.80		
	cross road-4	**2x2**	4.00	60.00	0.15	0.30	10.80		
	cross road-5	**2x2**	4.00	65.00	0.15	0.30	11.70		
	Gangamma Temple Area								
	Cross road-1	**2x2**	4.00	40.00	0.15	0.30	7.20		
	Cross road-2	**2x2**	4.00	30.00	0.15	0.30	5.40		
	Amruthalli Remaining								
	RHS	**1x2**	2.00	20.00	0.15	0.90	5.40		
							190.54	5998.54	**1142947.00**
5	Providing **TMT Steel Reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.(Page No.18, Item No.4.46.2)								
	Basic Rate:	Tonne	70966.00						
	Area Weightage @ 6%		4257.96						
	Total		75223.96						
	Reinforcement for side wall						190.54		
			At 55 Kg % per cum				**10.48**	75223.96	**788315.00**
6	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / **rectangular slabs /side walls** polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.(Page No.16, Item NO.4.32)								

Name of Work:- Improvements to drains of kariyanna layout main road in ward no.07 Byataranapura.
Estimated Cost:- 75.00 Lakhs

S.N	DESCRIPTION OF WORK	Unit	N	L	B	D	QTY	RATE	AMOUNT
1	2	3	4	5	6	7	8	9	10
	Basic Rate:	Sqm	456.00						
	Area Weightage @ 6%		27.36						
	Total		483.36						
	SIDE								
	Veerannapalya								
	Cross Roads	4x2	8.00	48.00		0.10	38.40		
	Veerannapalya Drains								
	5th cross	2x4	8.00	115.00		0.45	414.00		
	6th cross	1x4	4.00	135.00		0.45	243.00		
	Sandhyagappa layout drains								
	cross road-3	2x4	8.00	60.00		0.30	144.00		
	cross road-4	2x4	8.00	60.00		0.30	144.00		
	cross road-5	2x4	8.00	65.00		0.30	156.00		
	Gangamma Temple Area								
	Cross road-1	2x4	8.00	40.00		0.30	96.00		
	Cross road-2	2x4	8.00	30.00		0.30	72.00		
	Amruthalli Remaining								
	RHS	1x4	4.00	20.00		0.90	72.00		
							1379.40	483.36	**666747.00**
7	Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfications (Data Rate Approved)								
	DETA RATE	**Sqm**							
	Covering Slab								
	Veerannapalya Drains								
	5th cross		390.00		0.60	0.90	210.60		
	6th cross		225.00		0.60	0.90	121.50		
	Amruthalli covering slabs		238.00		0.00	1.20	0.00		
	Sandhyagappa layout drains								
	cross road-3		200.00		0.60	0.75	90.00		
	cross road-4		200.00		0.60	0.75	90.00		
	cross road-5		217.00		0.60	0.75	97.65		
	Gangamma Temple Area								
	Cross road-1		133.00		0.60	0.75	59.85		
	Cross road-2		100.00		0.60	0.75	45.00		
	Amruthalli Remaining								
	RHS		33.00		0.60	0.90	17.82		
							732.42	2337.00	**1711665.54**
8	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 of size 450x150x500 mm and finished with CM 1:3 plastering and finishing cutting etc., complete.Pg								
	RHS		1	20.00			20.00		

Name of Work:- Improvements to drains of kariyanna layout main road in ward no.07 Byataranapura.
Estimated Cost:- 75.00 Lakhs

S.N	DESCRIPTION OF WORK	Unit	N	L	B	D	QTY	RATE	AMOUNT
1	2	3	4	5	6	7	8	9	10
							20.00		
			TOTAL(total length/0.45)				**43.00**	467.46	20101.00
	Basic Rate:	Nos	441.00						
	Area Weightage @ 6%		26.46						
	Total		**467.46**						
9	KSRB 5-9.1:Providing and applying ready mix priming coat over ocncrete / masonry, / asbestos cement sheet / plastered surfaces includding preparing the surface after thorougly cleaning of oil, grease, dirt and other foreign matter and sand papering including cost of materials, labour compelte as per specifications. Page No. 124 / Item No. 15.80								
			43.00		0.45		19.35		
					TOTAL		**19.35**	39.22	759.00
	Basic Rate:	sqm	37.00						
	Area Weightage @ 6%		2.22						
	Total		**39.22**						
10	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavements using grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregate at 0.46 cum, coarse and fine aggregate confirming to IS:383-2016, with superplastisiser @3lts confirming to IS9103-2008 mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades textured machine, and curing including cost of all materials, labour, hire charges of machineries, all lead and lift charges etc.., complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) **(Pg.No.176, It.22.6.1)**								
	Basic Rate:	cum	4916.00						
	Area Weightage @ 6%		294.96						
	Total		5210.96						
	Veerannapalya								
	Cross Roads		4.00	48.00	4.00	0.10	76.80		
					TOTAL		**76.80**	5210.96	**400202.00**
11	Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cst of generator, HOM of machinery screed vibaratory, power floater, blade and disc etc., with all leads and lift.**(Pg.No.176, It.22.7)**								
	Basic Rate:	sqm	68.00						
	Area Weightage @ 6%		4.08						
	Total		72.08						
	Veerannapalya								
	Cross Roads		4.00	48.00	4.00		768.00		
					TOTAL		**768.00**	72.08	**55358.00**

Name of Work:- Improvements to drains of kariyanna layout main road in ward no.07 Byataranapura.
Estimated Cost:- 75.00 Lakhs

S.N	DESCRIPTION OF WORK	Unit	N	L	B	D	QTY	RATE	AMOUNT
1	2	3	4	5	6	7	8	9	10
12	KSRRB M2900-2.1. Laying Reinforced cement concrete pipe NP2 / prestressed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets complete as per specifications. MORTH Specification No. 2900 B. 1200 mm dia MORTH Specification No. 1000,2300 Page No. 255, Item No. 34.7.8, PWD SR 2018-19								
			4	3.00	--	--	12.00		
					TOTAL		**12.00**	5976.28	**71715.36**
	Basic Rate:	mtr	5638.00						
	Area Weightage @ 6%		338.28						
	Total		5976.28						
13	Providing 100mm and down size nominal size. (Pg No.I.Item No.23)								
	For Pit		4	0.28		1.20	1.35		
	(3.14x0.6*0.6)/4	Cum			**TOTAL**		**1.35**	987.62	**1333.29**
14	Providing 40mm and down size nominal size (Pg No.II.Item No.25)								
	For Pit		4	0.28		0.40	0.45		
	(3.14x0.6*0.6)/4	Cum			**TOTAL**		**0.45**	1091.43	**491.14**
15	Providing 20mm and down size nominal size (Pg No.II.Item No.28)								
	For Pit		4	0.28		0.40	0.45		
	(3.14x0.6*0.6)/4	Cum			**TOTAL**		**0.45**	1091.43	**491.14**
16	Providing Fine aggrgate 2.36mm nominal size (Pg No.II.Item No.32)								
	For Pit		4	0.28		0.30	0.34		
	(3.14x0.6*0.6)/4	Cum			**TOTAL**		**0.34**	1054.29	**358.46**
17	Providing and fixing MS Grating 260x260 mm(Page No.1X, Sl No.234, code No.0771)								
			8				8.00		
					TOTAL		**8.00**	89.84	**718.68**
	Basic Rate:	Nos	84.75						
	Area Weightage @ 6%		5.09						
	Total		89.84						
18	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 136, item No. 17.1)								
	Basic Rate	cum	**57.00**				860.42	94.34	**81172.00**
	Rs. 2.50 Tonne Km.								
	Average Weight of earth 1.28 Tonne/Km.								
	For 10 Km								
	Rs.2.50X1.28TonneX		**32.00**						
	Total		**89.00**						
	Add Area Weightage6%		**5.34**						
			94.34						
19						**Sub Total**			**6355379.61**

			~~94.84~~						
19				PMC	& DPR	(1+1)% ~~Sub Total~~		6464875.07	127107.59
20				Add 12% GST charges				775785.01	762645.55
21				KRIDL CHARGES (3+1)%				258595.00	254215.18
22				Miscelleneous charges				744.92	652.07
23						Total		7500000.00	7500000.00

1)This is certified that the work spot comes under BBMP limits only.
2) The work spot is inspected by me
3) The items Provided in the Estimate are quite Essential
4)The rates are as per CSR of 2018-19 year of PWD Bangalore Circle.

~~Asst.Engineer~~
Ward no.7

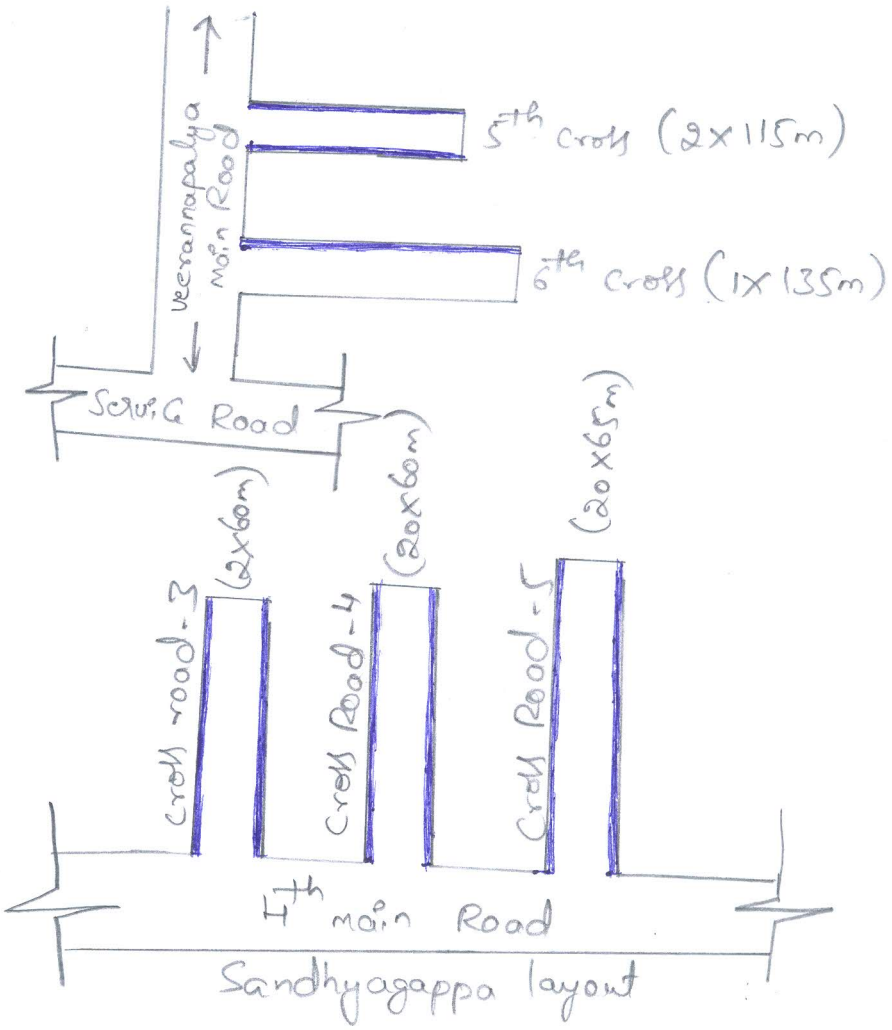
Asst.Exe.Engineer
Kodigehalli ~~Sub~~-division
B.B.M.P.

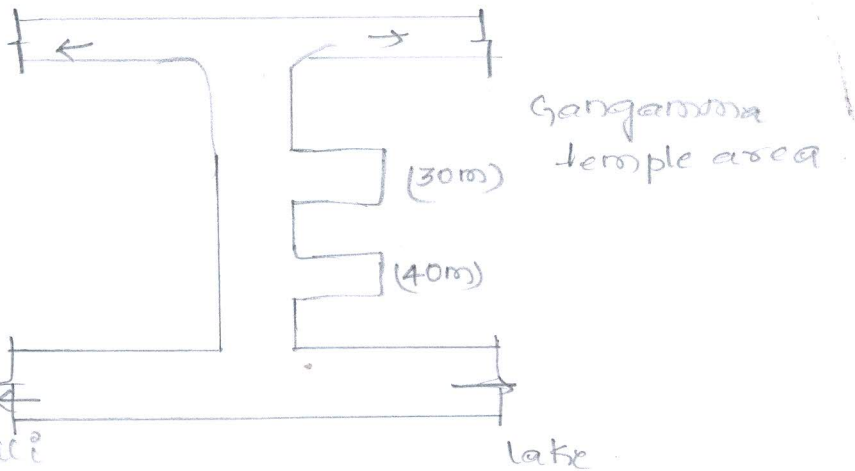
Executive Engineer
Byatrayanapura Division
B.B.M.P.

ADMINISTRATIVE APPROVAL
Accorded For Rs. 75.00 Seventy five Lakhs only
Head of A/c. P3727, SC-SP/TSP
Div. Ref. No. 86 Date 24-10-19
AE 24/10
EE(BTP) 24/10

Technical Sanction
Accorded For Rs 75.00 Lakhs only
Head of A/C. P3727
CER NO : 136 Dt: 28.10.2019
TA
CE (YNK)

Name of work:- Improvements to drains of Kotiyanna layout main Road in ward no.07 byatarayanapura.





Index

→ RCC drain

AEE/HLY.ND
DE(WF)

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.